

IT 314

Software Engineering

NON-FUNCTIONAL TESTING
(Sprint 1)

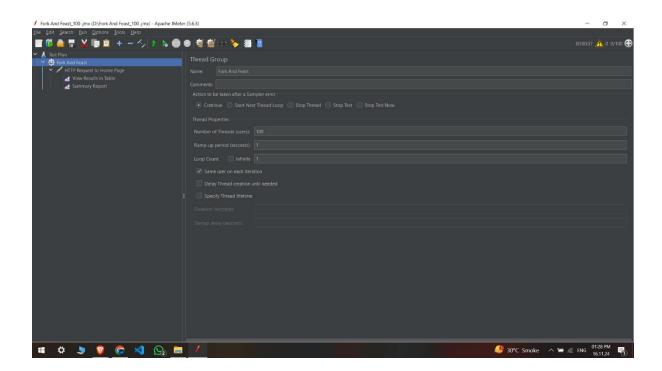
Fork & Feast

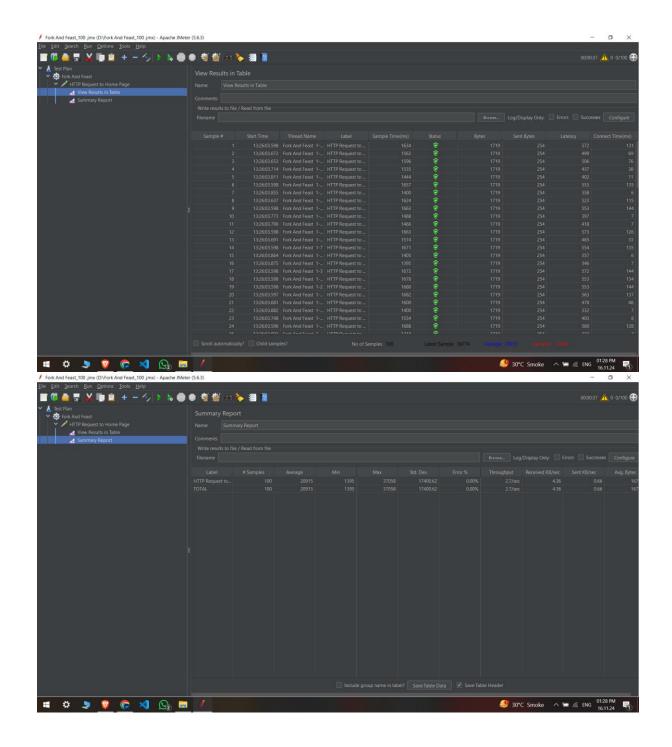
Group 28

> Tool Used:

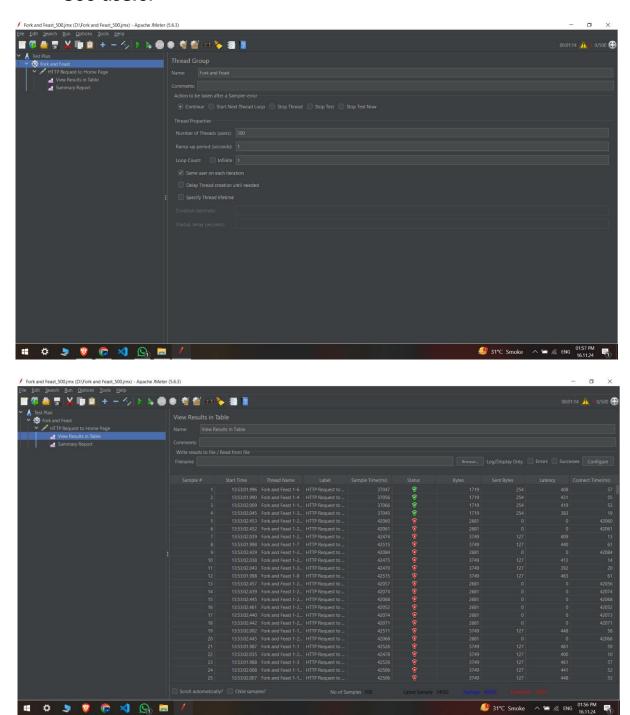
Apache jmeter-5.6.3

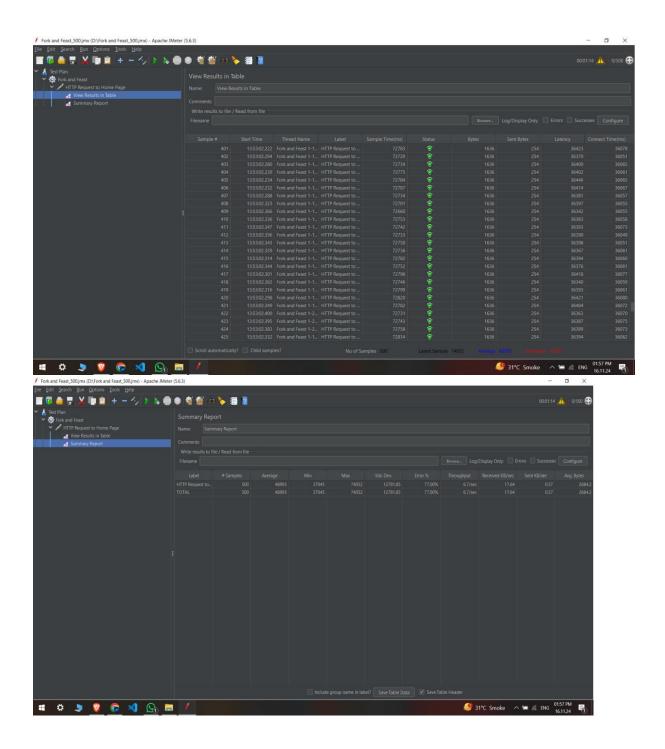
- 1) Load Balance Testing
- Testing Home Page
 GET request to PATH 'forkandfeast.onrender.com/'
- **Scenario:** We accessed the ForkAndFeast homepage using the same user account from multiple hosts (100 and 500) to assess the system's load balancing and throughput efficiency.
- 100 users:-





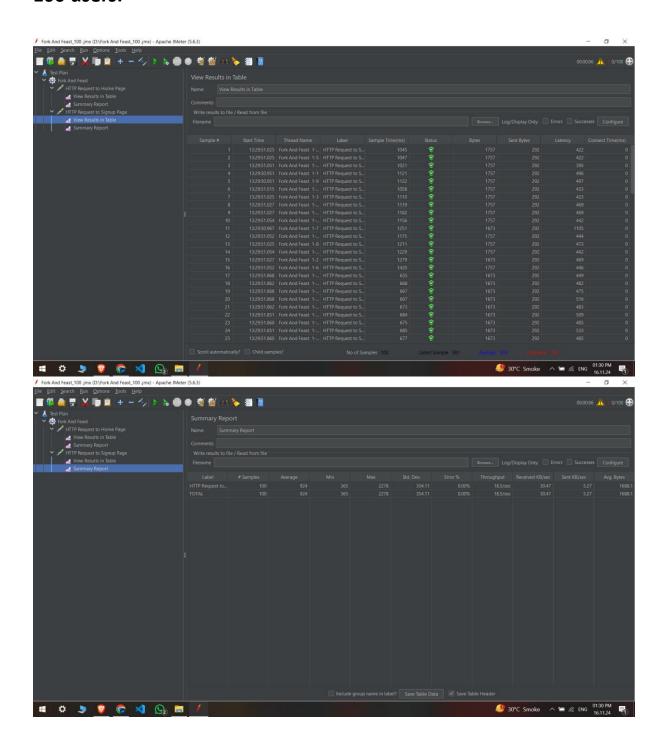
• 500 users:-



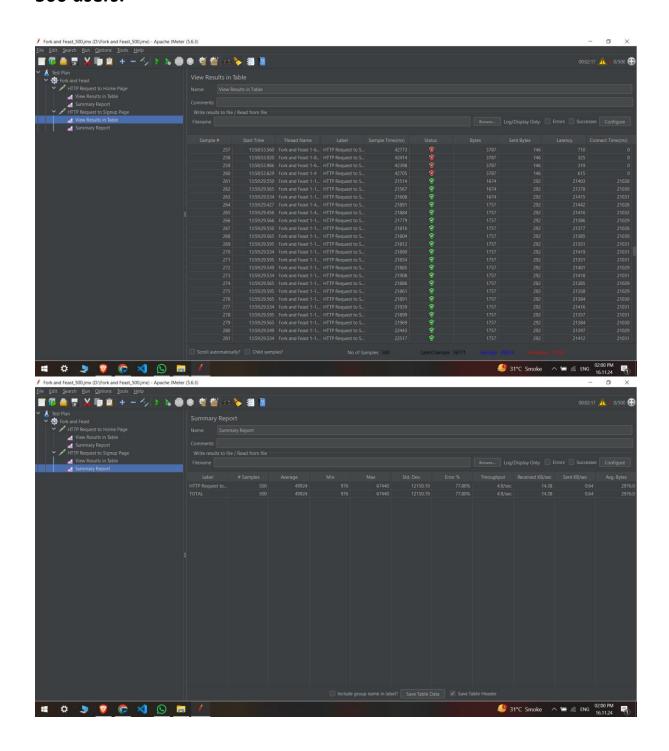


Testing Signup Page
 GET request to PATH
 'forkandfeast.onrender.com/login?type=owner'

• 100 users:-

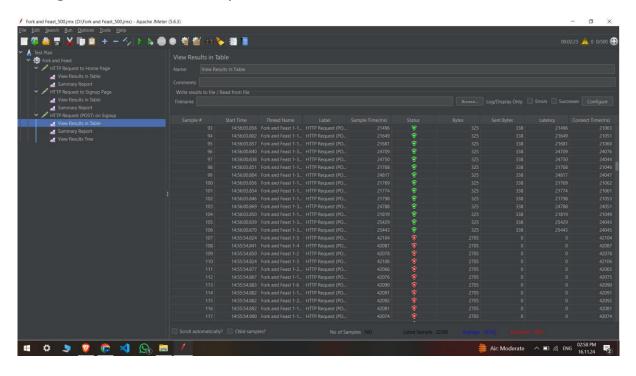


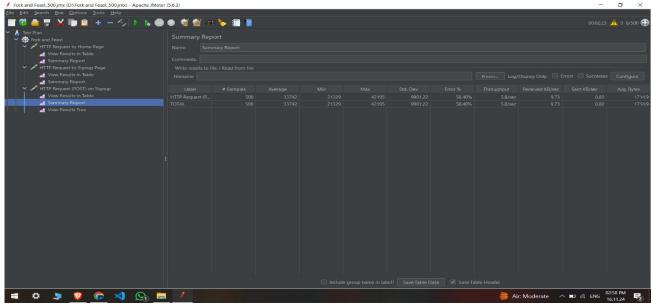
• 500 users:-

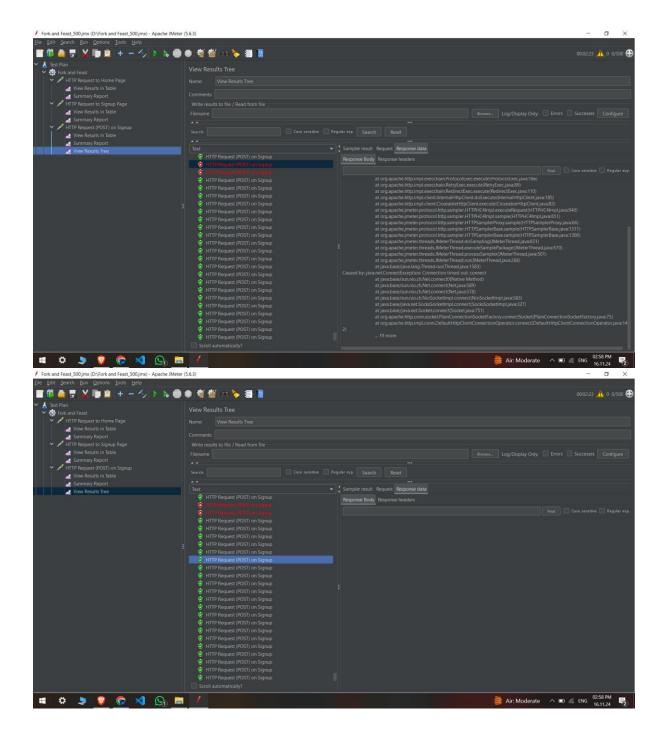


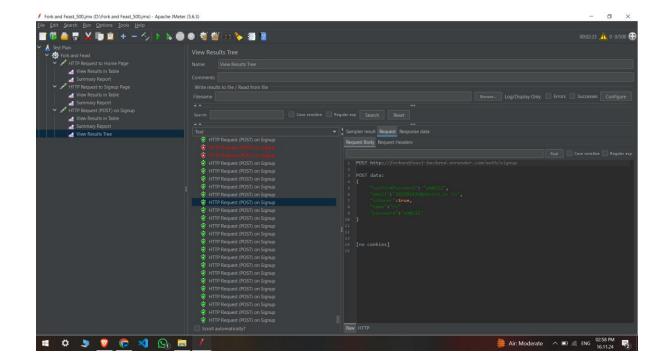
- Testing Signup Page
 POST request to PATH
 'forkandfeast.onrender.com/auth/signup'.
- **Scenario**: Validating the ForkAndFeast Signup API under multiple load conditions.

We tested the signup endpoint (forkandfeast.onrender.com/auth/signup) by simulating new user registrations with unique data to assess for 500 users.





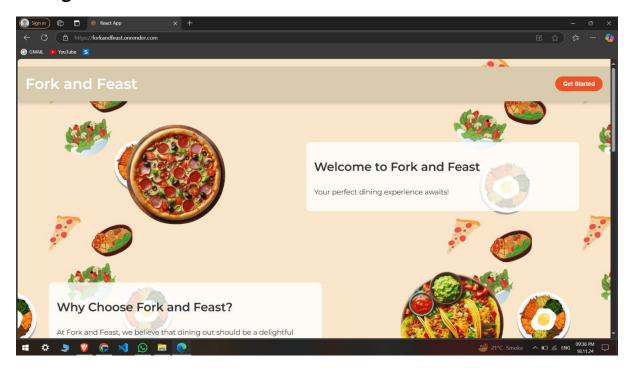




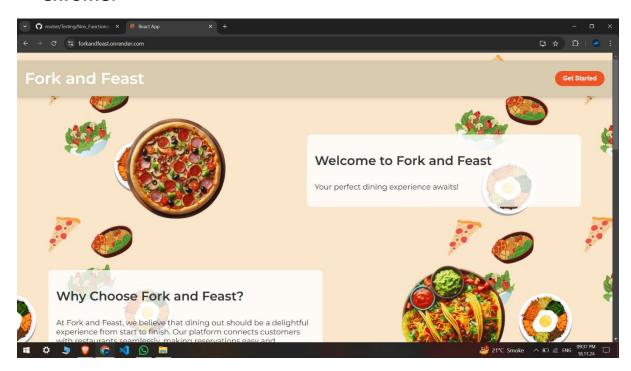
2) Compatibility Testing

We've made sure that the website is compatible with the latest web browsers covering Edge, Chrome and Brave and also for all devices like mobile, and laptops.

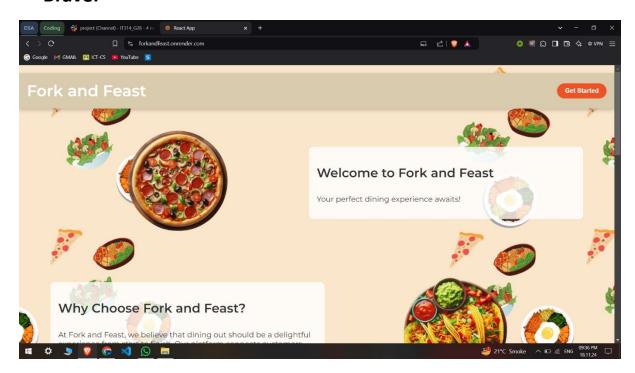
• Edge:-



• Chrome:-



• Brave:-



• Chrome(Android):-



3) Security Testing

Authentication and Authorization: The system employs JWT-based authentication to validate user access to various endpoints. This mechanism safeguards sensitive information by restricting access exclusively to authenticated users. Without logging in, individuals cannot view or interact with internal data.

Data Protection: User passwords are securely hashed with bcrypt, incorporating 10 salt rounds to enhance security. This process ensures that passwords are unreadable, even to

database administrators, maintaining the confidentiality and safety of user information.

Additionally, our website has undergone a security assessment using the third-party tool available at "https://pentest-tools.com/". The detailed findings from this scan are provided below.



Website Vulnerability Scanner Report



Nothing was found for vulnerabilities of server-side software. Nothing was found for client access policies. Nothing was found for use of untrusted certificates. Nothing was found for enabled HTTP debug methods. Nothing was found for enabled HTTP OPTIONS method. Nothing was found for secure communication. Nothing was found for directory listing. Nothing was found for missing HTTP header - Strict-Transport-Security. Nothing was found for missing HTTP header - X-Content-Type-Options. Nothing was found for domain too loose set for cookies. Nothing was found for HttpOnly flag of cookie. Nothing was found for Secure flag of cookie. Nothing was found for unsafe HTTP header Content Security Policy.

Scan coverage information

List of tests performed (19/19)

- Starting the scan...
- Checking for missing HTTP header Content Security Policy...
- Checking for missing HTTP header Referrer...
- Checking for website technologies...
- Checking for vulnerabilities of server-side software...
- Checking for client access policies...
- Checking for robots.txt file...
- Checking for absence of the security.txt file...
- Checking for use of untrusted certificates...
- Checking for enabled HTTP debug methods...
- Checking for enabled HTTP OPTIONS method...
- Checking for secure communication...
- Checking for directory listing...
- Checking for missing HTTP header Strict-Transport-Security...
- Checking for missing HTTP header X-Content-Type-Options...
- Checking for domain too loose set for cookies...
- Checking for HttpOnly flag of cookie...
- Checking for Secure flag of cookie...
- Checking for unsafe HTTP header Content Security Policy...

Scan parameters

Target: https://forkandfeast.onrender.com/

Scan type: Light

Scan stats

Unique Injection Points Detected: 2
URLs spidered: 8
Total number of HTTP requests: 17
Average time until a response was 245ms

received: